

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

SUBJECT: Photochemical Assessment Monitoring
Stations Network Plan -- State of
Maryland

DATE: 3-22-95

FROM: Victor Guide, Chief
Philadelphia Operations Section
Environmental Services Division

Victor Guide

TO: Richard Wies, Chief
Division of Air Monitoring, Maryland
Air and Radiation Management Administration

The Philadelphia Operations Section, EPA Region III, Emissions, Monitoring, and Analysis Division have reviewed the PAMS Network Plan submitted by the State of Maryland for the Washington, D.C., and Baltimore ozone nonattainment areas. The PAMS network for this area is depicted in the attached table.

The resulting approved network for Maryland's portion of the Washington, D.C. network would consist of a single #3 Site located at Fort Meade, Maryland; and additional #3 Site at Suitland, Maryland, was not approved. This second #3 Site appears to be located too close to the Metropolitan Statistical Area (MSA) and cannot be approved unless additional justification demonstrating the appropriateness of this site can be remitted.

The resulting approved network for Baltimore would consist of a #1 Site at Fort Meade (also #3 for Washington), a #2 Site at East Baltimore, a #2A (secondary wind direction) Site at Morgan State University, a #3 Site at Aldino, and a #4 Site operated by the State of Delaware at Lums Pond. Note that the proposal of one additional #3 Site at Edgewood for Baltimore (which appears to be redundant) and one additional #3 Site for D. C., would exceed the minimum PAMS requirements and would not likely garner an additional allocation of 105 monies to Region III for either site unless justification was submitted demonstrating the necessity of these two sites. Edgewood #3 may be approved as a SPM/SLAMS in accordance with my memorandum of January 9, 1995.

Although no formal proposal was forthcoming for upper air meteorological monitoring for the area, it is my understanding that a site will be proposed on the University of Maryland campus to serve both Baltimore and Washington. A limited assessment of this concept indicates that approval for such a site could probably be granted following the submittal of a detailed plan.

If you have questions or wish to discuss this review in further detail, please contact Nash Gerald at (919) 541-5652 or me at (215) 397-1602.

Attachment

cc: Elaine Wright (3AT00)
Marcia Spink (3AT00)
David Arnold (3AT13)
Randy Pomponio (3ES00)
Robert Kramer (3ES10)

PAMS NETWORK
State of Maryland

TYPE	LOCATION	PROPOSED VOC SAMPLING FREQUENCY	DATE ESTAB	COMMENTS
#2A	Morgan State University	VOC - 8 3-hour samples every day 1 24-hour sample every 6th day year-round Carbonyls - 8 3-hour samples per day	1994	Approved as a #2A Site for Baltimore. Note that Maryland proposed this site as a #2 Site, however, the wind rose supports this site only as a secondary #2. Note also that the meteorological proposal does not include barometric pressure. The 1-24-hour sample every 6th day for carbonyls year-round is missing.
#3	Aldino	VOC - 8 3-hour samples every 3rd day 1 24-hour sample every 6th day	1994	This was a high ozone site for 1993, but not the maximum site. According to the State of Maryland, however, this site best meets the criteria for a #3 Site. The site is approved as the #3 Site for Baltimore.
#1/#3	Fort Meade	VOC - 8 3-hour samples every 3rd day 1 24-hour sample every 6th day	1995	Approved as a #1 Site for Baltimore and as a #3 Site for DC
#3	Edgewood	No proposal	1996	Proposed as an additional #3 Site for Baltimore. This Site is approvable as an SPM/SLAMS. No detailed site information was submitted. Note that this would constitute a sixth site which appears to be redundant for Baltimore and exceeds the minimum PAMS requirements.
#3	Suitland	No proposal	1996	Proposed as an additional #3 Site for DC. This site appears too close to the MSA to be considered a #3 Site; approval cannot be granted without further justification. No detailed site information was submitted. This would constitute a sixth site for the Washington, DC area, exceeding the minimum PAMS requirements.
#2	East Baltimore	VOC - 8 3-hour samples every day 1 24-hour sample every 6th day year-round Carbonyls - 8 3-hour samples per day	1997	Approved as a #2 Site for Baltimore. Note that Maryland proposed this site as a #2A Site, however, the wind rose supports this site as the primary #2. Note also that the meteorological proposal does not include barometric pressure. The 1 24-hour sample every 6th day for carbonyls year-round is missing. No detailed site information submitted.